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reasons parallel processing processors multipl

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An elementary processor architecture with simultaneous instruction issuing from multiple ...

► 202,38,79,74 (PDF)

H Hirata, K Kimura, S Nagamine, Y Mochizuki ... - ACM SIGARCH Computer Architecture News, 1992 - portal.acm.org

... architecture[] used as the base **processor** in a **parallel** ... for a large part of the **processing** time for ... and can easily create many threads(**parallel** processes) to ...

Cited by 201 - Related articles - BL Direct - All 11 versions

Ten reasons to use divisible load theory

TG Robertazzi - Computer, 2003 - doi.ieeecomputersociety.org

... While there is no **reason** to believe that the ... with operating systems or data-**parallel** languages such ... Research toward this goal includes **processing** divisible and ...

Cited by 157 - Related articles - BL Direct - All 5 versions

Instruction-level parallel processing: history, overview, and perspective- ► illinois.edu (PDF)

BR Rau, JA Fisher - The Journal of Supercomputing, 1993 - Springer

... For various nontechnical **reasons** the 360/91 was ... In the 1960s, research into "parallel **processing**" often was concerned with the ILP found in these **processors**. ...

Cited by 359 - Related articles - All 26 versions

The NAS parallel benchmarks- ► psu.edu (PDF)

DH Bailey, E Barszcz, JT Barton, DS ... - International Journal of High Performance Computing ..., 1991 - hpc.sagepub.com

... system will consist of at least 1,000 **processors** comput- ... Highly **parallel** systems with computing power ... ous **reasons**, the performance evaluation of these sys- ...

Cited by 1240 - Related articles - All 17 versions

Array processor with multiple broadcasting

VK Prasanna Kumar, CS Raghavendra - Journal of Parallel and Distributed Computing, 1987 - Elsevier

... transfers within rows and columns of **processors**. ... in linear algebra, image **processing**, computational geometry ... We develop **parallel** algorithms for many problems in ...

Cited by 210 - Related articles - All 7 versions

[CITATION] Multiprocessors and parallel processing

PH Emden, 1974 - Wiley-Interscience

Cited by 126 - Related articles - Library Search

[BOOK] Introduction to parallel processing: algorithms and architectures

B Parhami, 1999 - books.google.com

... Emergence of **multiple-processor** microchips, along with ... the promise for making **parallel **processing**** more practical ... is the **reason parallel processing** occupies such ...

Cited by 154 - Related articles - All 3 versions

[PDF] ► Parallel processing on networks of workstations: A fault-tolerant, high performance

approach

P Dasgupta, ZM Kedem, MO Rabin - INTERNATIONAL CONFERENCE ON DISTRIBUTED ... , 1995 - Citeseer
... can tolerate loss of pieces due to **reasons** that have ... also implement the additional software for **pre-processing** and compiling the **parallel** program to ...

Cited by 61 - Related articles - View as HTML - BL Direct - All 24 versions

[PDF] ► Application scheduling and **processor** allocation in multiprogrammed **parallel processing** ...

KC Sevcik - Journal of Performance Evaluation, 1994 - Citeseer
... is the "speedup factor" achievable through **parallel processing**. ... where all available **processors** may not ... an application on **multiple processors** generally exceeds ...

Cited by 125 - Related articles - View as HTML - All 22 versions

[PDF] ► Parallel genetic algorithm taxonomy

M Nowostawski, R Poli - 3rd International Conference on Knowledge-Based ... , 1999 - Citeseer
... For this **reason** the asynchronous master- slave PGA does ... long time they require for **processing** a generation ... Sometimes coarse grained **parallel** GAs are known as ...

Cited by 86 - Related articles - View as HTML - All 11 versions

[PDF] ► Simulation and modeling of a simultaneous multithreading **processor**

DM Tullsen - 22nd Annual Computer Measurement Group ... , 1996 - new cmg.org
... but insights into the **reasons** be- hind the ... by multithreaded superscalar **processors**, we chose ... load achieved by multiprogramming rather than **parallel processing**. ...

Cited by 133 - Related articles - View as HTML - BL Direct - All 4 versions

A large scale, homogeneous, fully distributed **parallel** machine, I

H Sullivan, TR Bashkow - Proceedings of the 4th annual symposium on Computer ... , 1977 - portal.acm.org
... The general block diagram of a **parallel** com- puter ... For these **reasons** we regard the block diagram of Fig ... also, the support of **multiple processors** requires a high ...

Cited by 377 - Related articles - All 6 versions

Parallel database systems: The future of database **processing** or a passing fad?- ► psu.edu

[PDF] DJ DeWitt, J Gray - ACM SIGMOD Record, 1990 - portal.acm.org
... a design provides speedup and scaleup in **processing** relational database ... picture of the future of highly **parallel** database machines for two **reasons**. ...

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Multiscalar **processors**- ► psu.edu (PDF)

GS Sohi, SE Breach, TN Vijaykumar - ACM SIGARCH Computer Architecture News, 1995 - portal.acm.org
... be considered as speculative for two **reasons**: (i) control ... The details of the **parallel** execution of what at ... that distributes tasks en masse to **processing** units. ...

Cited by 764 - Related articles - BL Direct - All 57 versions

Fault-tolerance considerations in large, **multiple-processor** systems

JG Kuhl, SM Reddy - Computer, 1986 - osti.gov
... ARRAY PROCESSORS- DESIGN;ARRAY PROCESSORS- RELIABILITY;FAULT TOLERANT ... DESIGN; DISTRIBUTED DATA PROCESSING;INTEGRATED CIRCUITS;PARALLEL PROCESSING. ...

Cited by 49 - Related articles - Cached - All 5 versions

Real time radiosity through **parallel processing** and hardware acceleration

DR Baum, JM Winget - ACM SIGGRAPH Computer Graphics, 1990 - portal.acm.org
... the remaining operations which include **processing** the item ... d the hemi-cube item-buffers in **parallel** on the ... this would have been inefficient for several **reasons**. ...

Cited by 70 - Related articles - All 3 versions

[PDF] ► PVM: A framework for **parallel** distributed computing

VS Sunderam.... - Concurrency Practice and Experience, 1990 - Citeseer

... of this simulation are vector **processing** (for fluid ... that supports common **parallel** programming paradigms. ... primarily for portability **reasons** — most multiproces ...

Cited by 1406 - Related articles - View as HTML - All 31 versions

Distributed hierarchical control for **parallel** processing- ► psu.edu [PDF]

DG Feitelson, L Rudolph - Computer, 1990 - doi.ieeecomputersociety.org

... system controllers is out of place for two **reasons**. ... system also runs on a **parallel** machine tightly ... Just as operating system **processing** is offloaded from the ...

Cited by 160 - Related articles - All 10 versions

[CITATION] Cluster computing at a glance

M Baker, R Buyya - High Performance Cluster Computing, 1998

Cited by 50 - Related articles

Introduction to numerical methods for **parallel** computers

U Schendel - Chichester, West Sussex, England/New York, Ellis ..., 1984 - csa.com

... is the **multiple processor** version of the SIMD, while the MISD (chain of **processors**) is equivalent to the SISD. The fundamentals of **parallel** numerical analysis ...

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